Syllabus
APPLIED MATHEMATICS - III
S. E. Semester - III
(Mumbai University - Effective From June 2013)

Common to Mechanical, Automobile, Production and Civil Engineering

Module 1 : Laplace Transforms (6)

1. Function of bounded variation, Laplace Transform of standard functions such as 1, t^n, e^{at}, $\sin at$, $\cos at$, $\sin h\, at$, $\cos h\, at$.

2. Linearity property of Laplace Transform, First shifting property, Second shifting property, Change of Scale property of L.T. (without proof)

$L\{t^n f(t)\}$, $L\left\{\dfrac{f(t)}{t}\right\}$, $L\left\{\int_0^t f(u)\,du\right\}$, $L\left\{\dfrac{d^n f(t)}{dt^n}\right\}$, Heaviside unit step function, Dirac-delta function, Periodic functions and their Laplace Transform.

Module 2 : Inverse Laplace Transforms (5)

1. Linearity property, use of theorems to find inverse Laplace Transform, Partial fractions method and convolution theorem.

2. Applications to solve initial and boundary value problems involving ordinary differential equations with one dependent variable.

Module 3 : Complex Variables (10)

1. Functions of complex variable, analytic function, necessary and sufficient conditions for $f(z)$ to be analytic (without proof), Cauchy-Riemann equations in polar coordinates.

2. Milne-Thomson method to determine analytic function $f(z)$ when it's real or imaginary or its combination is given. Harmonic function, orthogonal trajectories.

3. **Mapping :** Conformal mapping, linear, bilinear mapping, cross ratio, fixed points and standard transformations such as rotation and magnification, invertion and reflection, translation.

Module 4 : Complex Integral (10)

1. Line integral of a function of a complex variable, Cauchy's theorem for analytic function, Cauchy Goursat theorem (without proof), properties of line integral, Cauchy's integral formula and deductions.

Applied Mathematics V 1

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